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<input type="checkbox"/>	L6	'tcp' with pars\$3 same broadcast	1
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<input type="checkbox"/>	L8	('20020191258')!.PN.	2
<input type="checkbox"/>	L7	'xml' with pars\$3 same broadcast	17
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L12: Entry 6 of 9

File: USPT

Jan 27, 2004

DOCUMENT-IDENTIFIER: US 6684399 B1

TITLE: Electronic program guide including live network multimedia broadcast channels

Detailed Description Text (8):

Referring now to FIG. 3 in conjunction with FIG. 2, a flow diagram of a method for generating an electronic program guide in accordance with the present invention will be discussed. The method 300 initiates with program guide server 212 obtaining program guide data at step 310. Program guide server 212 may obtain programming information from program information source 220, for example. Program guide server 212 creates a program guide data file at step 312 for a given period of time based upon the obtained programming information. A network such as worldwide network 222 is searched at step 314 for multimedia content that may exist on or be accessible via a selected one or more of nodes 224-228. The selection of a particular one of nodes 224-228 may be based upon user preferences, user viewing or network browsing history, a meta tag search, etc. A meta tag is information stored in a hypertext markup language (HTML) document that provides information about the contents of the HTML document, including keywords and indexing information, utilized by a networking information searching program, or search engine, to locate nodes (e.g., nodes 224-228) at which desired information may be stored. A suitable search engine may be embodied as a program of instructions executed by program guide server 212. A determination is made at step 316 whether multimedia content is stored on or is accessible via the selected node. In the event that no multimedia content is determined to exist on or be accessible via the selected node, the network is continued to be searched at step 314. In the event that multimedia content is determined to exist on or be accessible via the selected node, content information regarding the multimedia information is obtained at step 318. A determination is made at step 320 whether the multimedia content contains or is live content. In the event the multimedia content is determined to be live content, the content data is added to the program guide data at step 326, for example as an additional temporary channel of the program guide. In the event the multimedia content is not determined to be live content, a test parsing routine is executed at step 322 in which the content information is broken down and analyzed. A determination is made at step 324 whether the content information refers to a scheduled live broadcast event available over the network, for example, an event to be broadcast via worldwide network 222. In the event it is determined that the content information does not refer to a scheduled live broadcast event, the network is continued to be searched at step 314. In the event it is determined that the content information refers to a scheduled live broadcast event, the content information is added to the program guide data at step 326, for example as an additional channel. The program guide may thereby be supplemented with information regarding live content and scheduled future live broadcast content. The supplemented program guide may then be delivered to client 210 at step 328.

Detailed Description Text (10):

The method described with respect to FIG. 3 may be embodied as a program of instructions executing on program guide server 212 by configuring program guide server 212 to execute the steps of the method. The program of instructions may include instructions for causing program guide server to perform meta tag based searches of hypertext markup language (HTML) documents or the like stored on

worldwide network 222 to locate multimedia broadcast content or broadcast information. If multimedia content information is found, the contents of the HTML document are analyzed by a set of instructions causing program guide server 212 to execute a parsing routing (step 322) that tests the content information for key text and hyperlinks. For example, in a hyperlink to a multimedia file, an extension of the hyperlink may indicate the contents of the file as being multimedia formatted content. One example of such multimedia format is for a REALAUDIO, REALVIDEO or REALPLAYER multimedia player available from REAL NETWORKS, Inc., in which the HTML tag "HREF="../../radiorijeka/live.ram" wherein the "live" extension indicates a live broadcast of information and the "ram" extension indicates the information is formatted in a REALAUDIO multimedia format, thereby indicating a live multimedia broadcast. The format and structure of the uniform resource locators (URLs) such as the above described HTML tag describing multimedia content may be predetermined and known to the program of instructions (e.g., stored in a list). Broadcast information may be live or may be prerecorded. Typically, the broadcast protocols contain meta information describing the nature of the broadcast (e.g., live or recorded) that may be used by program guide server 212 to determine (step 324) whether or not to include the multimedia broadcast information with the electronic program guide (step 326) as an augmented, temporary channel. Additional information may be parsed from text surrounding an HTML tag such as a token in the information representing time, scheduling, etc. Program guide server 212 generates new electronic program guide content by inserting the multimedia information into the preexisting program guide data. The augmented electronic program guide may then be delivered to client 210 (step 328).

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